

NREL's Energy Analysis Forum

May 29, 2002

"Role of Renewable Energy in Improving Air Quality

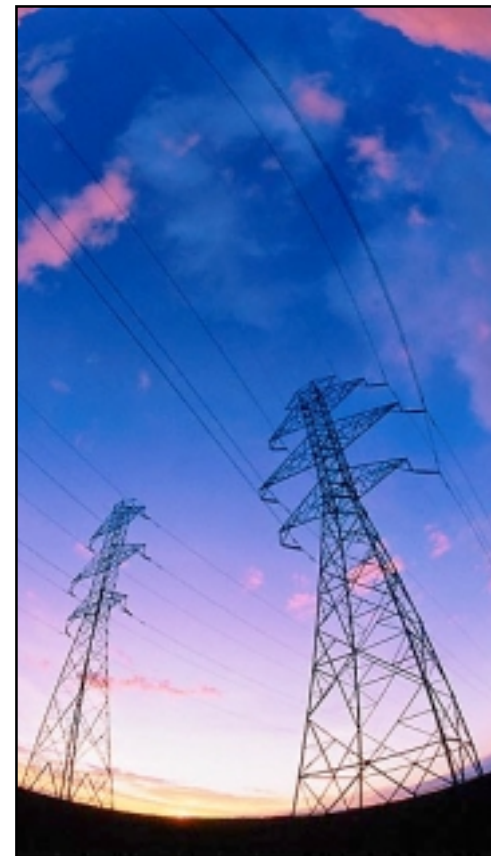
Brian M. Henderson

Director, Energy Efficiency Services

NYSERDA

State Energy Roles

- Administrator
 - Design and Implement System Benefits Charge
- Regulator
 - State Energy Code
 - Green Building Tax Credit
- Facilitator
 - Customer-sited renewables
 - Wholesale power
- Policy Maker
 - Executive Order 111
- Innovator
 - Product Development



Facilitator

- New Construction Program (\$3 million)
 - Application based
 - Tied to energy efficiency measures
- PV on Buildings (\$5 million)
 - Target installation community
 - Replicable, innovative applications



Policy Maker

- “Green and Clean” State Buildings and Vehicles
- Executive Order #111 Requirements
 - 35% Reduction in energy consumption by 2010
 - New Construction: “Green Buildings”
 - Existing Buildings: Energy Star®
 - Peak Demand Reduction targets



EXECUTIVE ORDER NO. 111
“GREEN AND CLEAN”
STATE BUILDINGS AND VEHICLES
GUIDELINES

GEORGE E. PATAKI
GOVERNOR

DECEMBER 2001

NEW YORK STATE
ENERGY RESEARCH AND
DEVELOPMENT AUTHORITY



NYSERDA

Policy Maker

- “Green and Clean.....” – Continued
 - 20% of Power from Renewables by 2010
 - 100% Alternative-Fueled Vehicles
 - 17 Agency Advisory Council chaired by NYSERDA
 - Mandatory on State: Voluntary Local Government/Schools



Policy Maker Energy Efficiency Set-aside

- Market environmental benefits through NO_x allowances
- 115 ton pilot program through 2002
- 3% set aside in 2003; ~1,200 tons annually
- Move beyond energy efficiency to renewables



Conclusion

Barriers to Renewable Energy Development

- Price-related
- Infrastructure-related
- Value-related
- Education

Questions

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1 (877) NYSMART

www.GetEnergySmart.org